

**Worksheet – Multiplying and Dividing Non-Variable Radical Expressions Containing Squares Roots**

Directions: Please simplify the following. Express your answers with exact numbers.

1.  $\sqrt{6} \cdot \sqrt{6}$

2.  $\sqrt{14} \cdot \sqrt{10}$

3.  $5\sqrt{3} \cdot 3\sqrt{6} \cdot 2\sqrt{5}$

4.  $5\sqrt{10} \cdot \sqrt{20}$

5.  $-\sqrt{6} \cdot 4\sqrt{8}$

6.  $-3\sqrt{5} \cdot 2\sqrt{25}$

7.  $3\sqrt{12} \cdot \sqrt{12} \cdot \sqrt{2}$

8.  $-6\sqrt{2} \cdot 5\sqrt{26}$

9.  $\sqrt{2} \cdot \sqrt{6} \cdot \sqrt{15}$

10.  $\frac{10\sqrt{7}}{5\sqrt{7}}$

11.  $\frac{10\sqrt{18}}{8\sqrt{6}}$

12.  $-\frac{12\sqrt{75}}{2\sqrt{5}}$

13.  $\frac{\sqrt{24}}{4}$

14.  $\frac{75\sqrt{28}}{5\sqrt{7}}$

15.  $\frac{20\sqrt{135}}{4\sqrt{5}}$

16.  $-\frac{\sqrt{80}}{7\sqrt{10}}$

17.  $\frac{\sqrt{48}}{\sqrt{16}}$

18.  $\frac{10\sqrt{6} \cdot 6\sqrt{48}}{3\sqrt{4}}$

19.  $\frac{\sqrt{7} \cdot 10\sqrt{3}}{8\sqrt{21}}$

20.  $-\frac{30\sqrt{96}}{20\sqrt{12}}$